

MP-1646

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PTO/SB/21 (08-00)

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	09/519,076	
	Filing Date	March 6, 2000	
	First Named Inventor	SALKOFF et al.	
	Group Art Unit	1646	
	Examiner Name	N. Basi	
Total Number of Pages in This Submission	1	Attorney Docket Number	018512-000130US

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Signature	<i>Annette S. Parent</i>
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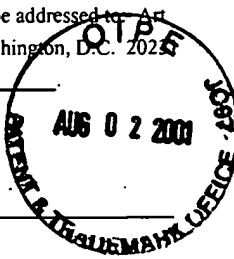
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PATENT
Attorney Docket No.: 018512-000130US

TOWNSEND and TOWNSEND and CREW LLP

By: Karen Lovino
Karen Lovino



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Salkoff *et al.*

Application No.: 09/519,076

Filed: March 6, 2000

For: A pH SENSITIVE POTASSIUM CHANNEL IN SPERMATOCYTES

Examiner: N. Basi

Art Unit: 1646

PRELIMINARY AMENDMENT AND
RESPONSE TO RESTRICTION
REQUIREMENT

6/8
8/7/01
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Art Unit 1646
Assistant Commissioner for Patents
Washington, D.C. 20231

08/07/2001 01 FC:102 160.00 CH
02 FC:103 180.00 CH

This paper is submitted in response to the Restriction Requirement dated June 29, 2001. Please amend the application as follows:

IN THE CLAIMS:

- Please cancel claims 18 and 20 without prejudice to subsequent revival.
- Please amend claims 17, 19, and 21, as follows.
- Please add new claims 45-56, as follows.

17. (once amended) An isolated polypeptide monomer of a pH sensitive potassium channel, the monomer:

- (i) having a unit conductance of approximately 80-120 pS when the monomer is in a functional tetrameric form of a potassium channel and is expressed in a *Xenopus* oocyte;
- (ii) having increased activity above approximately intracellular pH of 7.1; and

B!